WE CLAIM:

- 1. A water-in-fuel emulsion composition comprising a Fischer-Tropsch derived fuel and water, wherein said water-in-fuel emulsion composition have an ignition delay of equal or less than the equivalent cetane number of 40.
- 2. The composition of claim 1 which contains no ignition improving additive.
- 3. The composition of claim 1 wherein the water-in-fuel emulsion composition comprises an emulsifier.
- 4. The composition of claim 1 wherein the water-in-fuel emulsion have an ignition delay of equal or less than the equivalent cetane number of about 44.
- 5. The composition of claim 4 wherein the water-in-fuel emulsion have an ignition delay of equal or less than the equivalent cetane number of about 50.
- 6. A water-in-fuel emulsion composition comprising a Fischer-Tropsch derived fuel and water, wherein said water-in-fuel emulsion composition have an ignition delay of about 3 (degrees of crank angle) or less measured using an AVL/LEF 5312 engine under operating condition as described in Tables 2 and 3.
- 7. The composition of claim 6 wherein the water-in-fuel emulsion composition have an ignition delay of about 3.1 (degrees of crank angle) or less measured using an AVL/LEF 5312 engine under operating condition as described in Tables 2 and 3.
- 8. The composition of claim 6 which contains no ignition improving additive.
- 9. The composition of claim 7 which contains no ignition improving additive.
- 10. The composition of claim 6 wherein the water-in-fuel emulsion composition comprises an emulsifier.
- 11. The composition of claim 7 wherein the water-in-fuel emulsion composition comprises an emulsifier.

- 12. A method of reducing ignition delay in a compression ignition engine comprising operating the compression ignition engine in the presence of a water-in-fuel emulsion composition, said composition comprising a Fischer-Tropsch produced fuel and water.
- 13. A method of reducing the emission of NOx from a compression ignition engine comprising operating the compression ignition engine in the presence of a water-in-fuel emulsion composition, said composition comprising a Fischer-Tropsch produced fuel and water.
- 14. A method of reducing the emission of black smoke and/or particulate matter from a compression ignition engine comprising operating the compression ignition engine in the presence of a water-in-fuel emulsion composition, said composition comprising a Fischer-Tropsch derived fuel and water.
- 15. The method of claim 12 wherein the water-in-fuel emulsion composition contains no ignition-improving additive.
- 16. The method of claim 13 wherein the water-in-fuel emulsion composition contains no ignition-improving additive.
- 17. The method of claim 14 wherein the water-in-fuel emulsion composition contains no ignition-improving additive.
- 18. A method of reducing emissions of NO_X and/or black smoke and/or particulate matter in a compression ignition engine, as compared to that when using a conventional fuel having a specification in accordance with ASTM D973-03, but without reducing the ignition quality, which comprises replacing said fuel in said engine by a water-in-fuel emulsion composition which comprises a Fischer-Tropsch derived fuel and water.
- 19. A method of operating a compression ignition engine comprising including in said engine a water-in-fuel

emulsion composition which comprises a Fischer-Tropsch derived fuel and water.

- 20. The method of claim 19 wherein the water-in-fuel emulsion composition have an ignition delay of about 3 or less measured using an AVL/LEF 5312 engine under operating condition as described in Tables 2 and 3.
- 21. The method of claim 19 wherein the water-in-fuel emulsion composition have an ignition delay of equal or less than the equivalent cetane number of 40.
- 22. The method of claim 20 wherein the water-in-fuel emulsion composition have an ignition delay of about 3.1 or less measured using an AVL/LEF 5312 engine under operating condition as described in Tables 2 and 3.
- 23. The method of claim 21 wherein the water-in-fuel emulsion composition have an ignition delay of equal or less than the equivalent cetane number of about 44.
- 24. The method of claim 20 which contains no ignition improving additive.
- 25. The method of claim 21 which contains no ignition improving additive.
- 26. The method of claim 22 which contains no ignition improving additive.
- 27. The method of claim 23 which contains no ignition improving additive.
- 28. A process for the preparation of a water-in-fuel emulsion composition which process comprises admixing a Fischer-Tropsch derived fuel with water.